US Army Corps of Engineers®

Are You Ready?

2008 Hurricane Season Preparedness

US Army Corps of Engineers®

AGENDA Update

Opening Remarks
- USACE: LTG Van Antwerp
- FEMA: Mr. Powers

Objectives

All Hazards Threat
- 2008 Hurricane Season Forecast (Atlantic & Pacific)
- Earthquake

In-Progress-Review:
- Chief's Initial Checklist (handout)
- Common Operating Picture
- Mission Readiness Snapshot
- ACI Update
- Readiness Exercises/Workshops
- PRT/FFE Update
- Remedial Action Program (RAP)
- Key USACE/FEMA RAP Challenges

Chief's Guidance

Closing Remarks
- FEMA: Mr. Powers
- USACE: LTG Van Antwerp

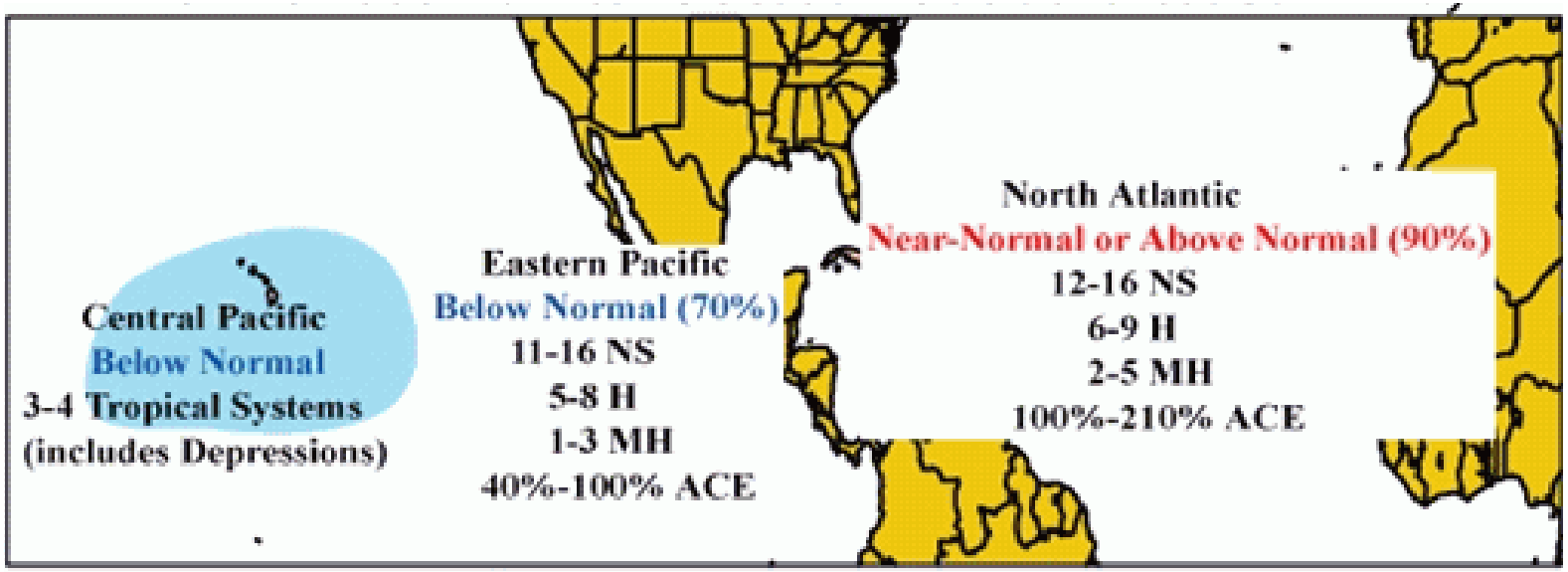
US Army of Engineers®

Objectives

- Provide readiness status for USACE personnel, teams and tools for all hazard responses.
- Identify any limiting factors.
- Provide venue for senior leader's guidance.

US Army Corps of Engineers®

Outlook for: 2008 Pacific Hurricane Season



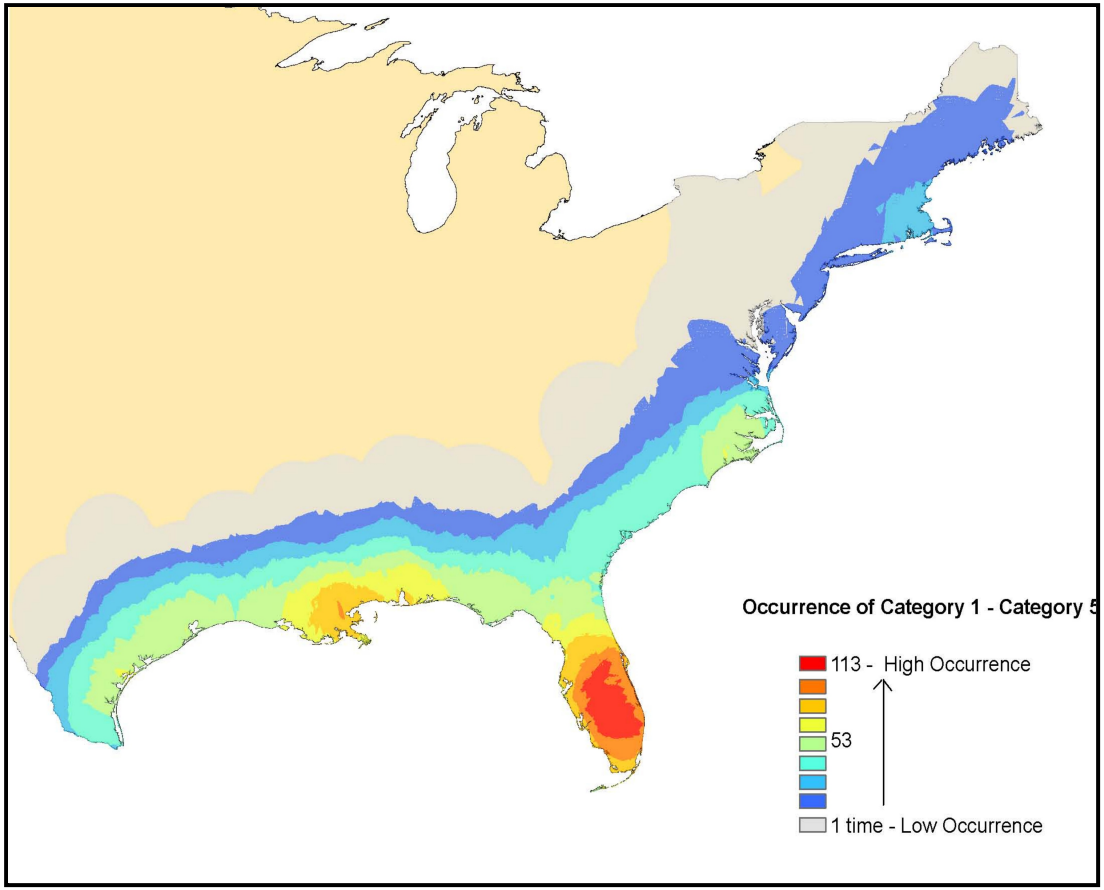
NOAA's 2008 seasonal hurricane outlooks indicate the likely ranges (each with a 60%-70% chance) of Named Storms (NS), Hurricanes (H), Major Hurricanes (MH), and Acccumulated Cyclone Energy Index (ACE).

The outlooks indicate a 90% chance of a near- normal to above-normal Atlantic hurricane season, and a 70% chance of a below-normal Eastern Pacific hurricane season. Also likely is a below-normal hurricane season for the Central Pacific.

US Army Corps of Engineers®

Landfall Outlook for: 2008 Atlantic Hurricane Season

- **Probability for direct hit from major hurricane* (CAT 3, 4, 5) on:**
  - **Entire US Coastline: 69%**
  - **Average last century 52%**
  - **US East Coast (inc FL): 45%**
  - **Gulf Coast (FL Panhandle westward to Texas: 45%**
- **Above average major hurricane landfall risk in Caribbean**



Historical occurrences of hurricane strike on US coastline

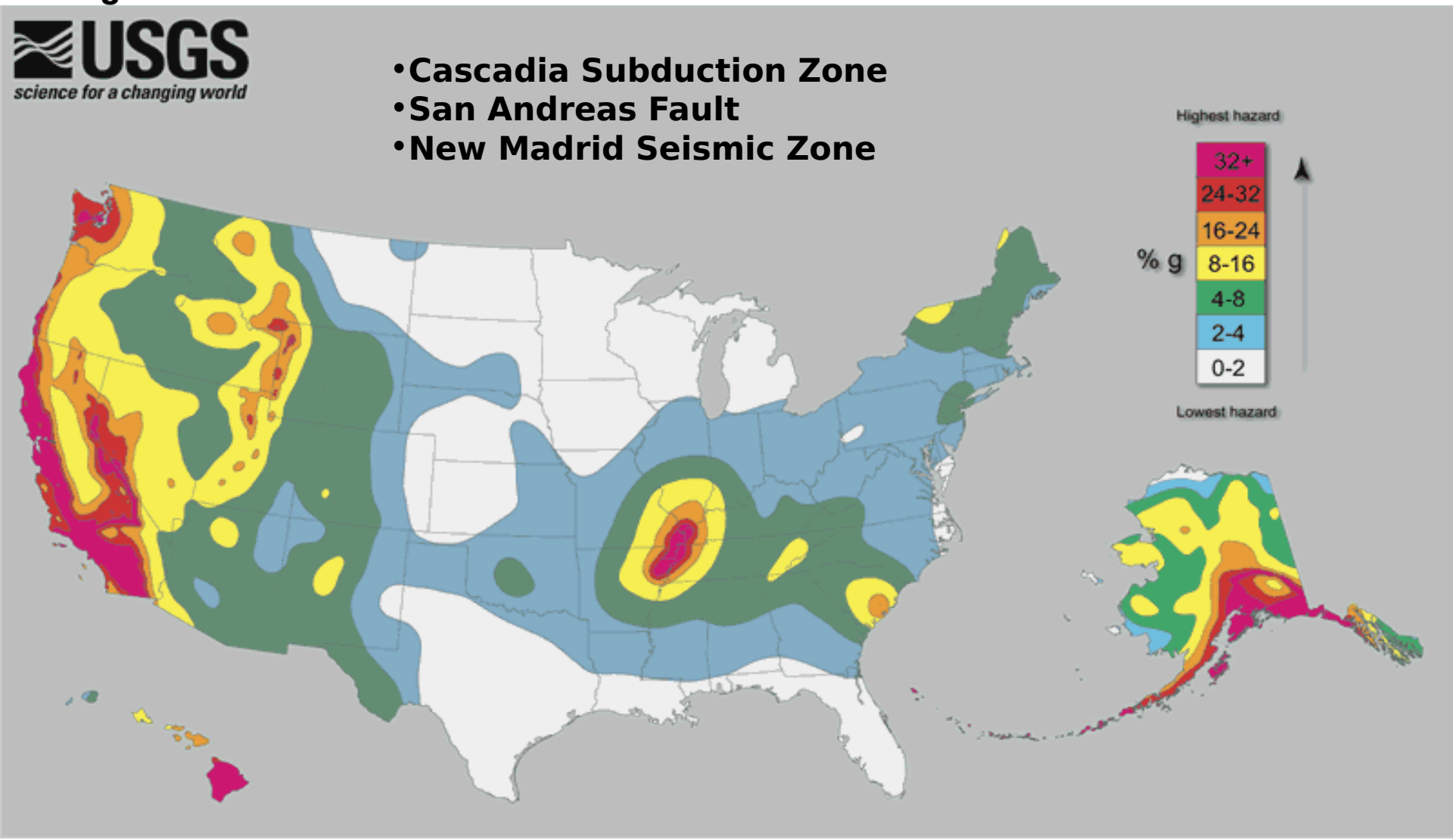
* Source: Drs. Gray and Klotzbach, Colorado State University

US Army Corps of Engineers®

Earthquake Threat - Overdue in U. S

USGS science for a changing world

- Cascadia Subduction Zone
- San Andreas Fault
- New Madrid Seismic Zone



* Petersen, M.D, 2008 USGS

USACE Personnel Mission Support

US Army Corps of Engineers®

EVENT	Spring Snowmelt Flood		Midwest Flooding		Maine Flooding		Midwest Tornadoes, AR & TN		Direct Support to FEMA HQ & REG IV		2005 Events (Katrina / Rita)		EVENTS TOTAL	
	MAY 08		MAR/APR 08		APR 2008		FEB 2008		ONGOING		AUG/SEP 2005			
UNIT	Cur	Chg	Cur	Chg	Cur	Chg	Cur	Chg	Cur	Chg	Cur	Chg	Cur	Chg
HQ/Other														
249th PP														
LRD									10		2		12	
MVD			83				1		1		56		141	
NAD					3						2		5	
NWD	25										4		4	
POD														
SAD/RSC									1		2		3	
SPD														
SWD							3				1		4	
JTFs														
FOAs/Ctrs											1		1	
RAO (Ret)											29		29	
RESDRO											11		11	
TOTAL	25	0	83	0	3	0	4	0	12	0	108	0	232	

US Army of Engineers®

Common Operating Picture

- Data elements and display formats defined.
- Added automation for functional workflow of EOC checklists and RFIs, PAO, and GIS products for visibility at all levels.
- Version available for feedback during NLE 02-08.
- Seeking feedback from users to refine original vision.
- Ultimate goal - auto-update of Homeland Security Information Network.

US Army Corps of Engineers®

Mission Readiness Snapshot

Mission	Lead	ACI	Mission Guides/SOPs	PSMA	Training/ Exercises
Commodities	SWD	N/A			Exercise: 5-9 May 08
National Ice	SAD/SPD				Exercise: 5-9 May 08
National Water	NAD/NWD				Exercise: 5-9 May 08
Emergency Power	LRD				Exercise: 5-9 May 08
Debris	MVD				Training : 14-18 April 08
Contaminated Debris	MVD		20% Complete		Scheduled for FY09
Temp Roofing	NWD				Training: Complete 30 Jun 08
Temp Housing	SAD	N/A			Exercise: 23-27 Jun 08
Critical Public Facilities	SAD	N/A			Exercise: 23-27 Jun 0
Infrastructure Assessment	SPD	N/A			Exercise (T): Aug 08

US Army Corps of Engineers®

ACI Update

Mission	Begin Date	End Date	Lead Div
National Ice	22 Dec 06	31 Dec 09	SAD
National Water	1 Apr 08	31 Mar 13	NAD
Temp Roofing (OCONUS)	18 Sep 03	30 Nov 07*	SAD
Temp Roofing (CONUS)	17 Mar 06	30 Nov 08	SAD
Debris	1 May 08	30 Apr 13	MVD
Temp Power	Current: 1 Dec 02 New: July 08	Current: 31 Jul 08 New: TBD	LRD

Functional Updates/Comments

US Army Corps of Engineers®

- Contracting
- IM/IT
- ULA
- PAO
- Safety
- RM
- HR
- Counsel

US Army Corps of Engineers®

Readiness Exercises/Workshops

- COCOM Exercises
- NLE 02-08
- HQ/Division TTXs
- State (Hurricane prone areas)
- FEMA Regions - Gap Analysis Tool (GAT)
- Debris Contracting Strategy Workshop
- National Commodities/Ice/Water/Power/DTOS Exercise - Ft Gillem
- Temp Housing Workshop (Jun 08)
- Infrastructure Assessment Workshop (Aug 08)
- Temp Roofing Workshops (Jun 08)

US Army Corps of Engineers®

Readiness Exercises/Workshops/Training

- NLE 02-08
- FEST-A Nov-Dec 07
- CREST, EnvST, LST Training February 2008 FEST A Training March 2008
- BCDP Training (9)
- BDT in district training (10)
- FEST-A Training July 2008
- FEST-M Training August 2008

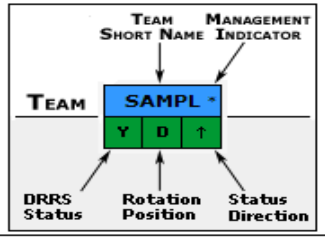
PRT Readiness Status

US Army Corps of Engineers®

Team Status

AVAILABLE | ALERTED | DEPLOYED

Defense Readiness Reporting System (DRRS) Terms: Assessment of ability to accomplish mission to standard under specified conditions.



	LRD	MVD	NAD	NWD	POD	SAD	SPD	SWD
Combined Commodities (SWD)	LRE Y 6	MVR Y 2	NAO Y 3	NWS Y 7		SAW Y 5	SPN Y 4	SWG Y 1
Debris Removal (MVD)	LRL Y 4	MVN Y 5	NAB Y 1	NWP Y 6		SAM Y 3 ↑	SPK Y 2	SWF Y 7
ESF #3 Support Team (NAD)	LRD N 4	MVD N 3	NAD Y 1	NWD N 2			SPD N 5	
Emergency Power (LRD)	LRP Y 2	MVM Y 7	NAP Y 4	NWW Y 5	POH Y 3	SAS Y 1		SWT Y 6
Infrastructure Assessment (SPD)	LRB Y 4			NWS Y 3	POA Y 2		SPK Y 1 ↑	
International Disaster Response Cadre (POD)					IDR N 1			
National Ice (SAD)						SAC Y 1	SPA Y 2 ↑	
National Water (NAD)			NAE Y 1	NWK Y 2				
Temporary Housing (SAD)	LRH Y 5	MVP Y 1	NAN Y 3		POD Y 4	SAS Y 2	SPL Y 6	
Temporary Roofing (NWD)	LRN Y 3	MVS Y 2		NWO Y 4		SAJ Y 1		SWL Y 5

US Army Corps of Engineers®

FFE Readiness Snapshot

CIRT	FEST-M	FEST-A	BDT	EI2RC	LST	CREST	ENVST
	MVD*	NAB*	LRL	SAM	NAD	NWD	SAD
	LRD*	NAN**	NAE		NWD	SAD	POD
		NAU	NWS		SPD	MVD	LRD
		NWS*	POA		POD	NAD	MVD
		POA**	POH		SWD	SPD	SPD
		POH*	NAB		SAD	SWD	NAD
		POJ	SAM		MVD	LRD	SWD
		SAM	SWF		LRD		NWD
		SAS**	SWL				
		SPL*	SWT				
		SWF**					
		SWL					
		SWT					

* FFE team standing up to be TOE (FOC 16 Oct)

** FFE team converting from TDA to TOE

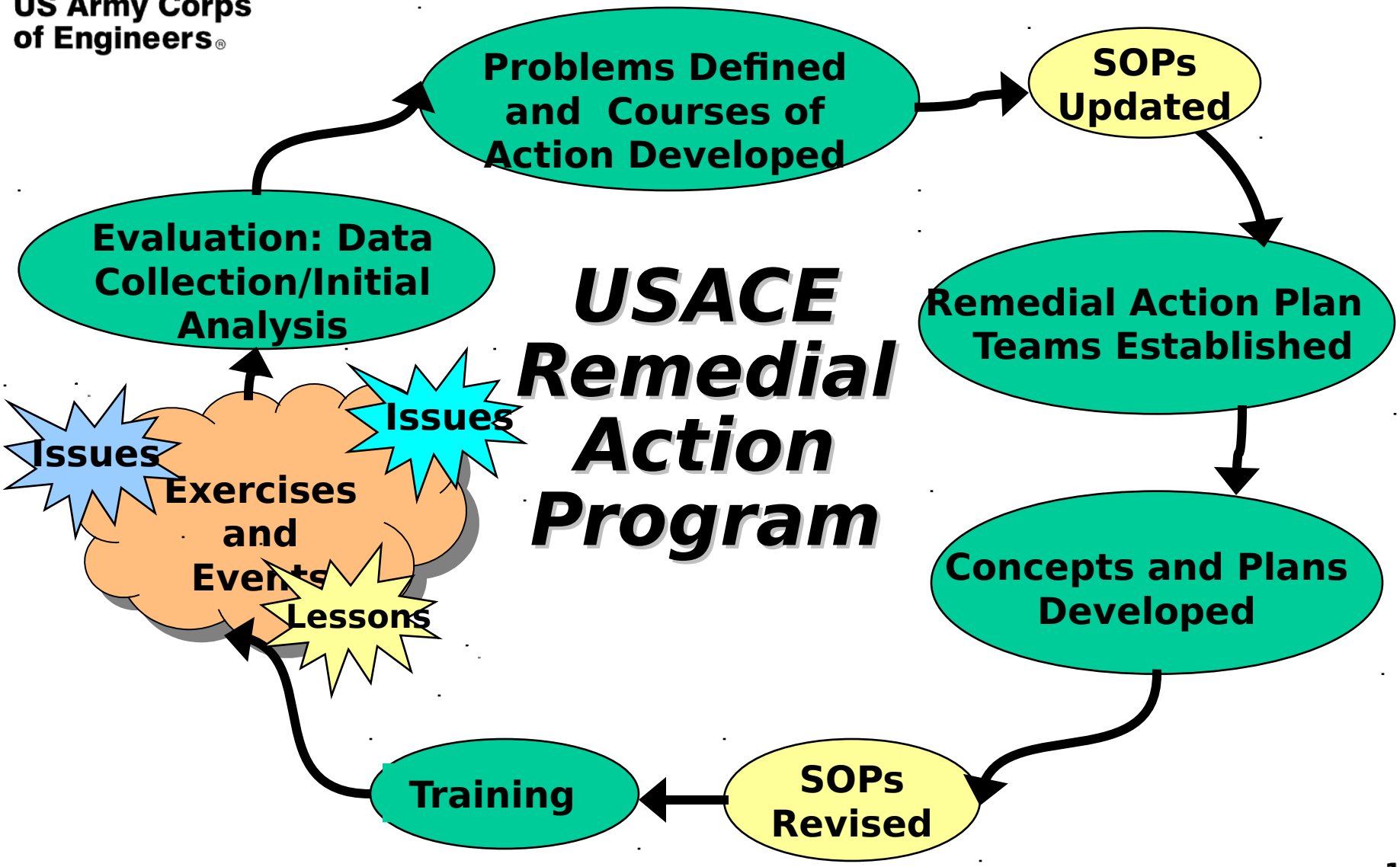
US Army Corps of Engineers®

249th Battle Personnel Update (15 May 08)

Availability	C2	PIIT
249th	5.5	21.0
HHC	1.0	1.0
A CO	2.5	12.0
B CO	2.0	8.0

USACE All-Hazards Performance Improvement

US Army Corps of Engineers®



US Army Corps of Engineers®

Key RAP Challenges from SLS

Joint Field Office (JFO) SOP

- Background:
  - JFO is temporary state level multi-agency coordination office
  - ESF#3 Mgmt Team currently assigned to Infrastructure Branch
- Proposed changes:
  - SOP breaks down ESF “stovepipes”
  - SOP proposes “Multi-Agency Task Groups”
- Concerns:
  - USACE needs ESF#3 management structure under Op’s Chief
  - ESF’s are already multiagency groups
  - States organized by ESFs
- Recommendation:
  - Maintain ESF#3 structure in JFO
  - ESFs can flex to integrate into Planning, Logistics, Resource Management
  - ESFs can form Task Forces as needed

US Army Corps of Engineers®

Key RAP Challenges from SLS

Interagency Agreements (IAAs)

- Background:
  - IAAs provide funding for “augmented preparedness”
  - IAAs: Modeling, Housing Sprt, Debris Estimation, Gulf Readiness, Search and Rescue, Earthquake Modeling, Contaminate Debris
  - FEMA transitions from Mission Assignments to IAAs

- Concerns:
  - Third party liability issue – “Show Stopper”
  - IAA process is not agile enough to support disaster environment

- Recommendations:
  - Senior level attention to resolve liability issue
  - Follow-on IAA process improvements

US Army Corps of Engineers®

Key RAP Challenges from SLS

Logistics and Commodities – Ice

- Background:
  - Evolution of “ice” as an initial response resource
  - USACE partner for logistics support for commodities, Points of Distribution (PODs), staging areas

- Concerns:
  - Ice competes with true life saving commodities and actions
  - Costs and excess product
  - Expectations high for Logistics/POD support

- Recommendations:
  - Official ice policy developed to curtail mission
  - Target ice for life saving “cooling products”
  - Internal/External communications plan
  - Joint planning and exercises to refine logistics support

US Army Corps of Engineers®

Key RAP Challenges from SLS

Temporary Housing

- Background:
  - FEMA transition to IA-TAC contracts
  - Rotating assistance from USACE
  - USACE lead for some missions

- Concerns:
  - FEMA lacks engineering construction expertise
  - Rotational support not sustainable
  - USACE role during disasters not established
  - Travel trailers no longer an option

- Recommendations:
  - Establish multi-year IAA for Housing Center of Expertise
  - Formalize role of USACE during disasters
  - USACE a partner in alternatives and housing strategy

US Army Corps of Engineers®

Key RAP Challenges from SLS

Contaminated Debris Management

- Background:
  - National Response Framework (NRF) ESF#3 Debris Management
  - NRF ESF#10 Hazardous Material
  - National Contingency Plan Authorities

- Concerns:
  - Capability needed to prepare for contaminated debris
  - Roles and responsibilities not clear
  - Limited resources (contracting, management, equipment, etc.)

- Recommendations:
  - WG Steering Committee (EPA, FEMA, USACE)
  - Contaminated Debris Task Force SOP
  - Memorandum of Agreements on Roles and Responsibilities
  - “Downrange” guidance on how agencies will operate

US Army Corps of Engineers®

Key RAP Challenges from SLS

Operational Planning

- Background:
  - Emergency Support Function Leaders' Group (ESFLG)
  - Hurricane Dean Working Group

- Concerns:
  - ESFLG not being used as a planning group
  - Emphasis on reporting, but little planning
  - Future planning not being conducted
  - No mechanism for policy and resource allocation concerns

- Recommendations:
  - ESFLG Charter
  - Planning doctrine developed
  - Future planning
  - Regional and National support for policy and resource allocation

US Army Corps of Engineers®

Closing Comments